United States Department of the Interior

BUREAU OF RECLAMATION
Great Plains Region
Montana Area Office
P.O. Box 30137
Billings, Montana 59107-0137

IN REPLY REFER TO: MT-450

May 19, 2014

FAXOGRAM: Water Order Change

To: Chief, Power Supply and Billing Division, WAPA, Watertown, South Dakota
Attention: F-6001
Chief, Power Dispatching Branch, WAPA, Loveland, Colorado
Attention: J-4120
Facilities Manager, Hardin, Montana
Attention: MT-300: Tom Tauscher
Project Manager, Mills, Wyoming
Attention: WY-4000, WY-4100, WY-6040
Assistant Superintendent, National Park Service, Lovell, Wyoming
Attention: Valerie Newman

From: Reservoir and River Operations, Billings, Montana /s/ Tim H. Felchle

Subject: **Yellowtail Water Release Order - BHR No. 14-46**

CURRENT RESERVOIR CONDITIONS:
Elevation: 3602.90; Storage: 725,094 acre-feet; River Release: 8,500 cfs; Inflow: 7,780 cfs;

GENERAL COMMENTS:
Recent streamflow measurements indicate the actual flows in the Bighorn River are lower than anticipated. To adjust for the variation in flows, the following operations are required at Yellowtail Dam and Powerplant and Yellowtail Afterbay Dam.

SPECIAL NOTE: To provide the proper mixing of water releases to the Bighorn River in attempt to minimize PSAT levels, it is desirable to maintain the Yellowtail Afterbay Reservoir at or above elevation 3186.0 feet and provide a mixing flow of approximately 85% through the spillway gates and 15% through the sluice gates, plus or minus 5%.

YELLOWTAIL BYPASS RELEASE:
At 1630 hour on Monday, May 19, 2014:
Maintain release through the spillway gates at ≈ 1,150 cfs.

YELLOWTAIL TURBINE RELEASE:
At 1630 hour on Monday, May 19, 2014:
Maintain average daily turbine release at 7,200 cfs (≈ 5,450 MW-Hours/day using 31.7 cfs/mw).

AFTERBAY RELEASE AND OPERATION:
At 1630 hour on Monday, May 19, 2014:
Maintain diversions to the Bighorn Canal at 100 cfs (gage height = 70.67 with 0.00 shift).
Maintain river release at 8,320 cfs (maintain gage height at 63.04 & apply new shift of +0.11).
Maintain total release from the Afterbay at 8,420 cfs.